Per \_\_\_\_ Name\_

1. Calculate T, T2, Fwallx, and Fwally using the picture provided. The mass of the shelf is 50 kg.



3. A uniform 8 m long board (mass 25 kg) serves as a seesaw for two children, as shown in the figure. One child has a mass of 15 kg and sits 4.5 m from the pivot point on the left side of the board. A second child sits 3 m from the pivot point on the right side of the board. What is the mass of the second child? What is the force of the fulcrum



4. A uniform 50 kg beam, 8 m long, supports 60 kg box of gazelle toys. Calculate the force on each of the supports.



5. A uniform 50 kg beam supports a 5 kg dog and a 12 kg cat. Calculate the force on each of the supports.



6. In the following cantilever what are the values for F1 and F2? The beam has a mass of 2000 kg and each clock has a mass of 100 kg.

